

---

```
clear
clc
close all
```

```
%G=tf([1],[1,17,80,100]);
```

```
%root locus of uncompensated
% rlocus(G);
```

```
k = 172;
z = 0.0124;
```

```
G_numerator = [k k*z];
G_denominator = [1 17 80 272 2.133]
```

```
G = tf(G_numerator,G_denominator)
figure
stepplot(G)
figure
rlocus(G)
```

```
G_denominator =
```

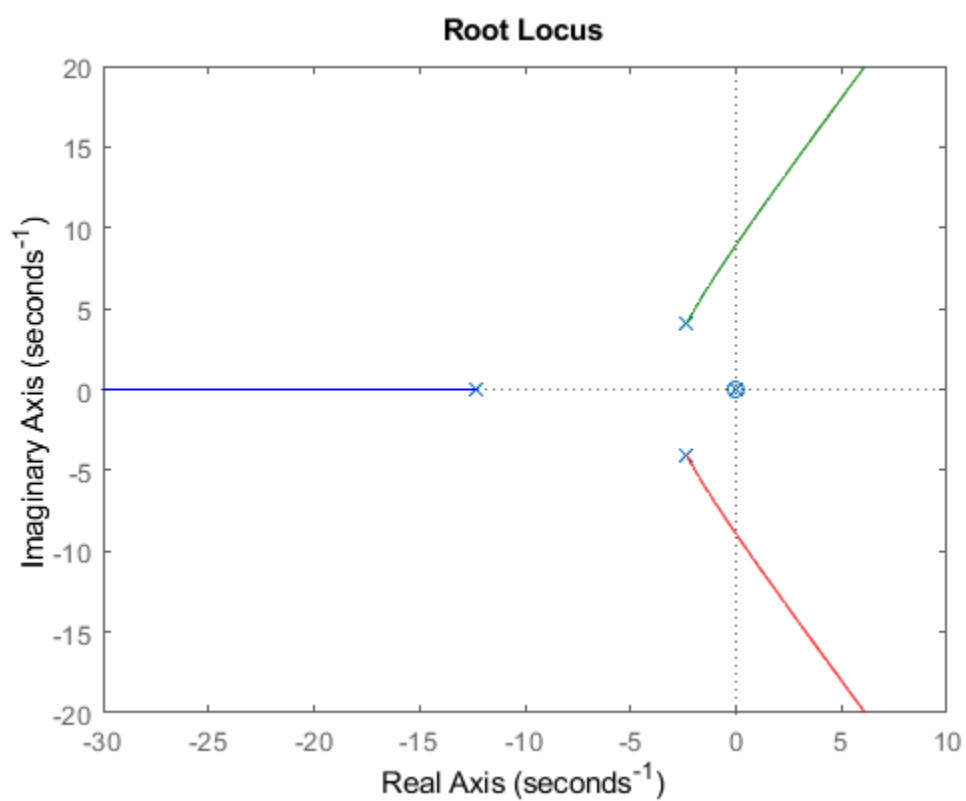
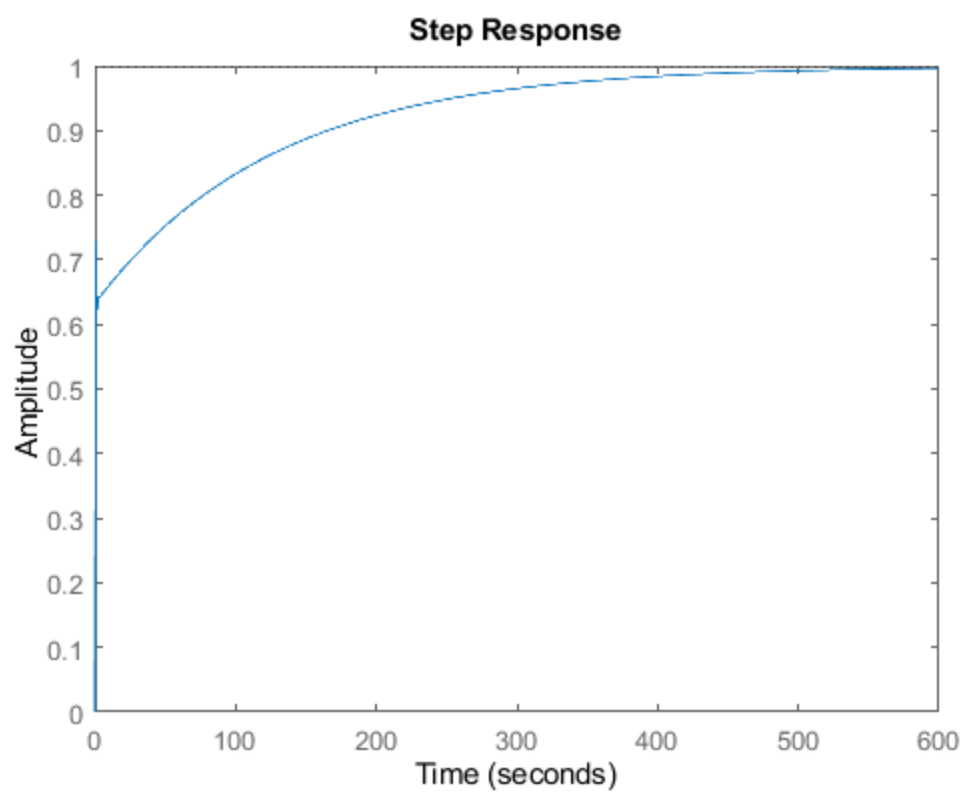
```
1.0000    17.0000    80.0000   272.0000    2.1330
```

```
G =
```

```
172 s + 2.133
-----
s^4 + 17 s^3 + 80 s^2 + 272 s + 2.133
```

```
Continuous-time transfer function.
```

```
<a href="matlab:ltipack.util.ModelPropertyDisplay.getInstance.show">Model
Properties</a>
```



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